**BIO-COM**

**SCIENTIFIC SKILLS ASSESSMENT**

**STUDY GUIDE**

**C:\Program Files (x86)\Microsoft Office\MEDIA\CAGCAT10\j0305257.wmf** 

**Scientific Skills – Interpret the diagrams below**

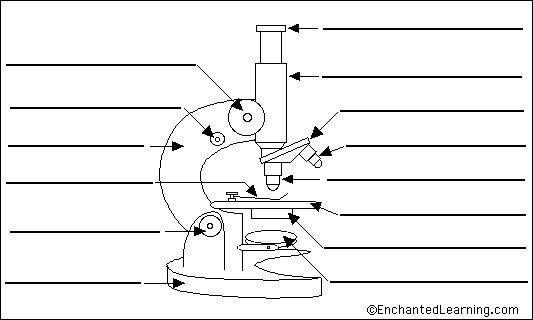
**MICROSCOPE**

**Directions: Using the terms below, label the microscope.**

arm base body tube coarse focus adjustment diaphragm

eyepiece fine focus high-power objective low-power objective light

revolving nosepiece stage stage clips

[](http://www.enchantedlearning.com/label/)

**13**

**12**

**11**

**10**

**7**

**6**

**8**

**9**

**5**

**4**

**3**

**2**

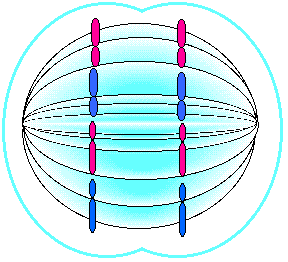
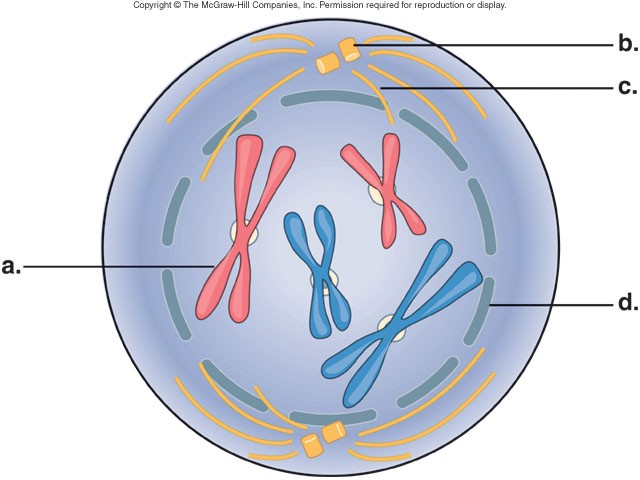
**1.**

**Using the word bank provided, identify the phases of the cell cycle.**

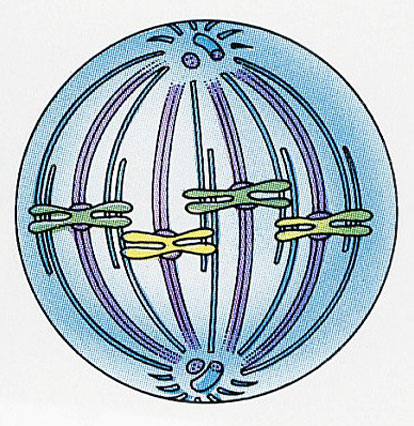
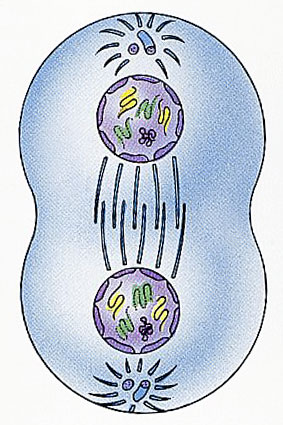
***Word Bank:* Interphase Prophase Metaphase Anaphase Telophase**

**Cytokinesis 46 4**

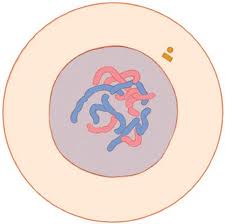
**1. 2.**



**3. 4.**



**5.**



6. Identify, in order the phases of mitosis.

7. What stage in the cell cycle where DNA is replicated.

8. In which phase of mitosis do the chromosomes line up across the equator of the cell?

9. In which phase are two daughter cells formed?

10. **TRUE OR FALSE** – the daughter cells made from mitosis are identical to the parent cell.

11. How many chromosomes will the daughter cell have from mitosis if the parent cell has 46?

12. In which phase of mitosis does the nuclear membrane break down?

13. How many phases are there in mitosis?

14. The splitting of the cytoplasm in animal cells during mitosis is called \_\_\_\_\_\_.